

FIG. 1

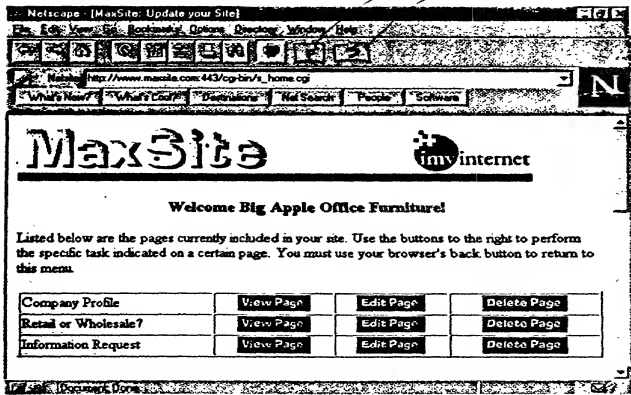


FIG 1A

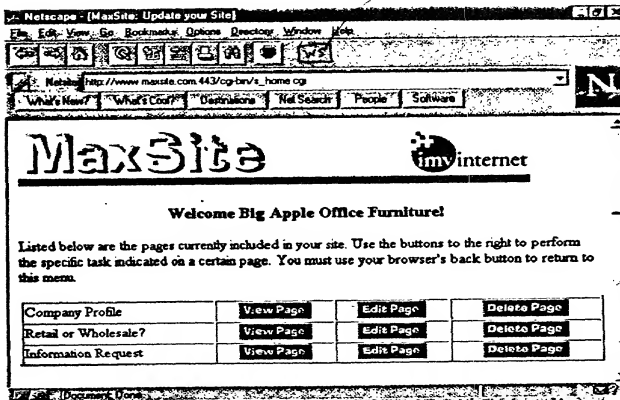


FIG 1B

I/P/S N	Registrant's NAME	Product DESCRIPTION	unifcam Resource LOCATOR (URL)	TRADE(SERVICE MARKS	E-MAIL Address	Status
7/18908/17474/10	Apple Computer, Inc. Cupertino, Calif.	Power Mac PowerPC Personal Computer	http://www.~~~~~	Power Mac.		
0/5373/100/6	Polaroid Gangle	photo-pac	http://www.~~~~~	CREST		
3/12597/68404/0	Warner Bros. Entertainment	acid reducer	http://www.~~~~~	Pentac, Pentac 35		
0/00005/17473/4	Kodak, Inc.	film processing	http://www.~~~~~	Kodak		
0/27242/51057/9	Sony, Inc.	personal computer	http://www.Sony.com/jp	Sony		

Information structure of Relational  
Data base Realized as a set  
of Directory Server

FIG. 2A1

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FIG. 2A2

IP/SN	Registrant's NAME	Product Description	Trade/Service Marks	e-mail Address	Status
7/05089/3746017	Message Communications Corp.	Enter.net Navigator	Navigator		
0/30000/01020/4	Quaker Inc.	Oatmeal	Quaker		
0/4461390/1	Coca Cola, Inc	Cola Soda	Coca-Cola, Coke		
0/7599/2025/2	Warner Bros.	Pat Metheny Audio CD	Geffen		
...	...	...	...	...	...

Information structure of Relational  
Database Realized as a  
IFS directory server

FIG. 2B

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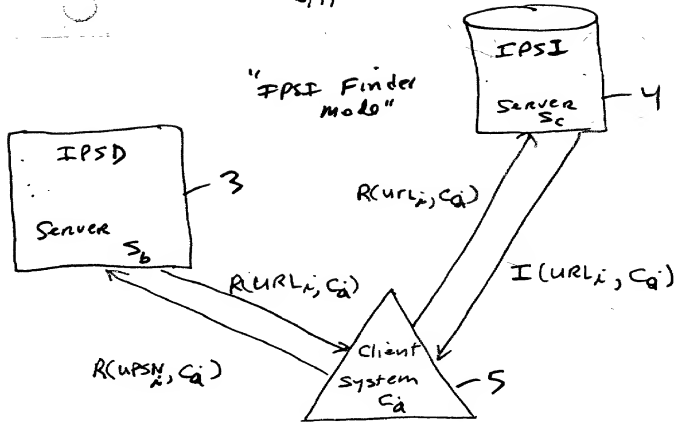


FIG. 3A

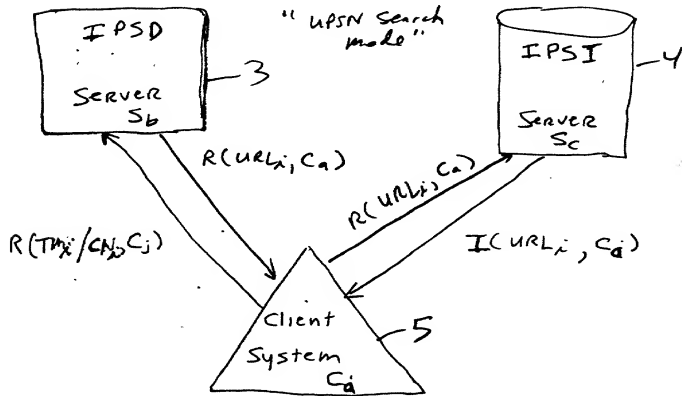
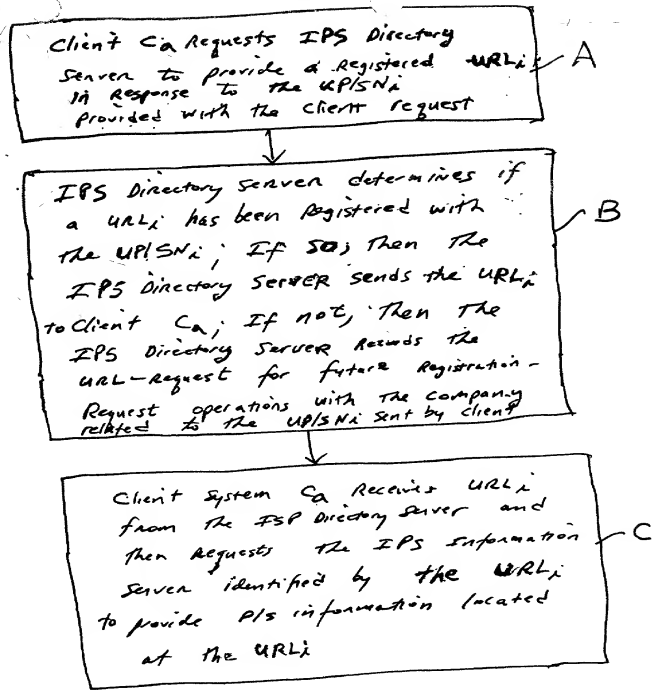
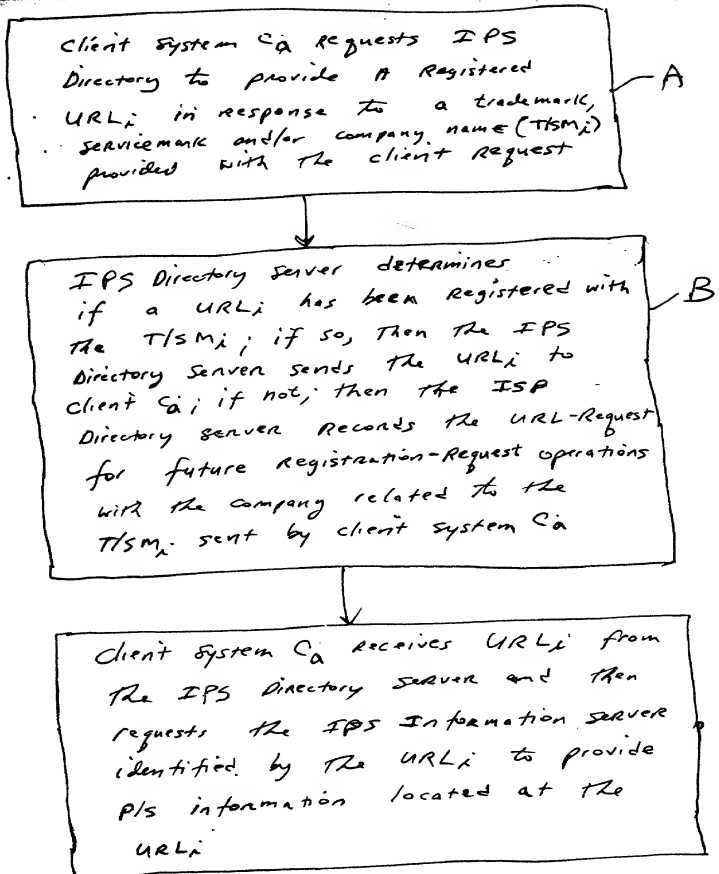


FIG. 3B



"IPSI Finder Mode"  
(Fig. 3A)

FIG. 4A



"URLS Search Made"

(Fig. 3B)

FIG. 4B



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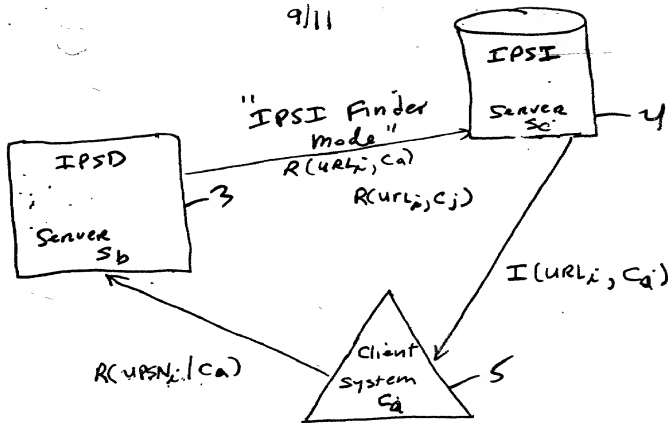


FIG. 5A

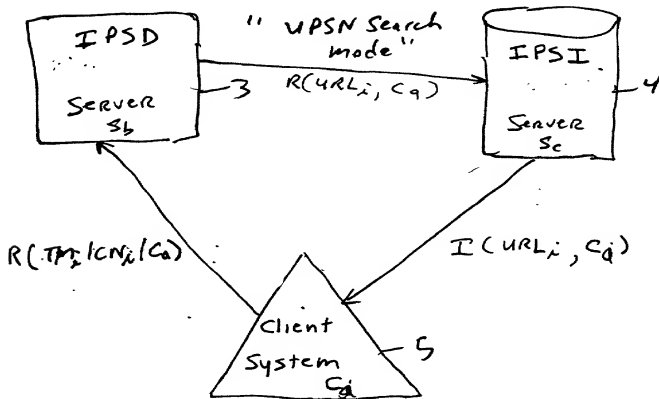


FIG. 5B

Client  $C_A$  requests IPS Directory Server to provide a registered  $URL_i$  in response to the  $UP/5N_i$  provided with the client request

IPS Directory Server determines if a  $URL_i$  has been registered with the  $UP/5N_i$ . If so, then the IPS Directory Server sends the IPS Information Server hosting the  $URL_i$ , a request for the IPS Information Server to send PIS information at the  $URL_i$  to the client system  $C_A$ ; if not, then the IPS Directory Server records the URL-request for future registration-request operations with the company related to the  $UP/5N_i$  sent by the client system  $C_A$ .

The IPS Information Server receives the  $URL_i$  from the IPS Directory Server and then provides the PIS information identified by the  $URL_i$  to the client system  $C_A$ .

"PIS Finder Mode"

(Fig. 5A)

FIG 6A

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Client C<sub>A</sub> requests IPS Directory Server to provide a registered URL<sub>i</sub> in response to a trademark, servicemark and/or company (T/SM<sub>i</sub>) provided with the client request

A

IPS Directory Server determines if a URL<sub>i</sub> has been registered with the T/SM<sub>i</sub>; if so, then the IPS Directory Server sends the IPS Information Server hosting the URL<sub>i</sub>, a Request for the IPS Information Server to send PIS information at the URL<sub>i</sub> to the client system C<sub>A</sub>; if not, then the IPS Directory Server records the URL-request for future registration-request operations with the company related to the URL/SM<sub>i</sub> sent by the client system C<sub>A</sub>.

B

The IPS Information Server hosting the URL<sub>i</sub> receives the request from the IPS Directory Server and then provides the PIS information identified by the URL<sub>i</sub> to the client system C<sub>A</sub>

C

"URL/SM search mode"  
(Fig. 5B)

FIG. 5B